

Question 1

Not yet
answeredMarked out of
1.00

Flag question

If $\alpha = (1325)$, then $(\alpha)^{10}$ is equal to

Select one:

- ☐ a. $(\alpha)^2$
- ☐ b. α
- ☐ c. I
- ☐ d. (1 3)

Question 2

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The statement of Lagrange's theorem is

Select one:

- ☐ a. the order of the semigroup is added to the order of the group
- ☐ b. the order of an abelian group is infinite
- ☐ c. the order of semigroup is finite
- ☒ d. the order of the subgroup divides the order of the finite group

[Clear my choice](#)

Question 3

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1.00

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The number of cosets of H in G, where $G = (\mathbb{Z}, +)$ and $H = (4\mathbb{Z}, +)$ is

Select one:

- ☒ a. 4
- ☐ b. 2
- ☐ c. 0
- ☐ d. 1

[Clear my choice](#)

Quiz navigation

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- ☐ b. 2
- ☐ c. 0
- ☐ d. 1

[Clear my choice](#)

Question 4

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 $(\mathbb{Z}, +)$ is not a subgroup of

Select one:

- ☐ a. $(\mathbb{N}, +)$
- ☐ b. $(\mathbb{Q}, +)$
- ☒ c. $(\mathbb{C}, +)$
- ☐ d. $(\mathbb{R}, +)$

[Clear my choice](#)

Question 5

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Which one is not true?

Select one:

- ☐ a. Cosets are either same or disjoint.
- ☒ b. The order of the subgroup divides order of the group.
- ☐ c. If a number divides order of the group G then there exists a subgroup of that order of G .
- ☐ d. The order of the element of the group divides order of its group.

[Clear my choice](#)

Finish attempt ...